

ESDB1211DP

Transient Voltage Suppressors

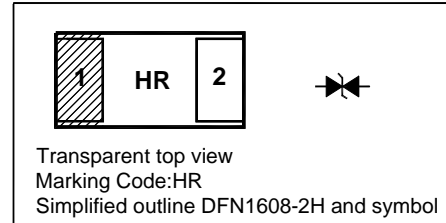
for ESD Protection

Features

- Protects one I/O or power line
- Low clamping voltage
- Bi-direction high reliability
- Low leakage current

PINNING

PIN	DESCRIPTION
1	Anode
2	Anode

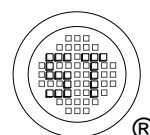


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

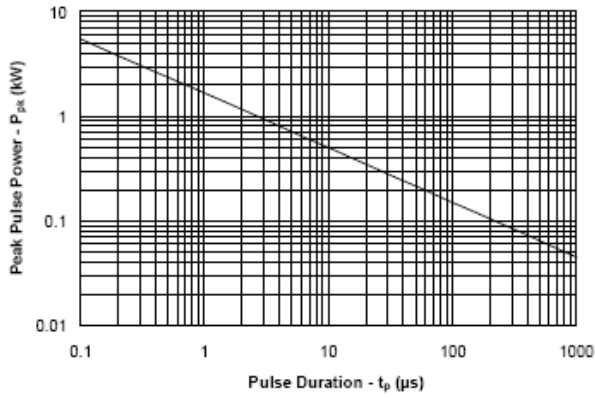
Parameter	Symbol	Value	Unit
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	7	A
IEC61000-4-2 (ESD) Air Contact	V_{ESD}	± 15 ± 8	KV
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)	P_{PK}	200	W
Operation Temperature Range	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

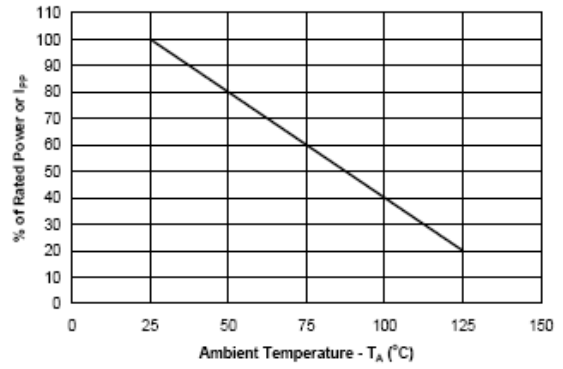
Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	12	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	$V_{(BR)R}$	13.3	-	V
Reverse Current at $V_{RWM} = 12 \text{ V}$	I_R	-	1	μA
Clamping Voltage at $I_{PP} = 1 \text{ A}$, $t_p = 8/20 \mu\text{s}$ at $I_{PP} = 7 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_C	-	19 28.5	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_j	-	25	pF



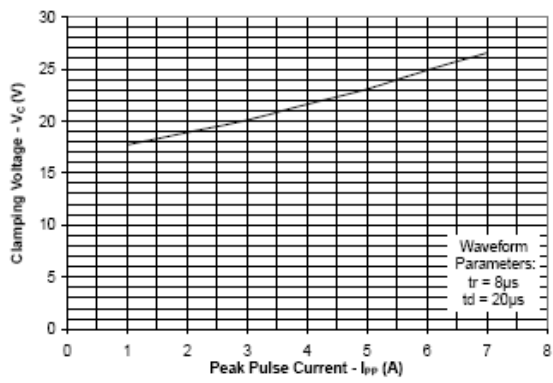
Non-Repetitive Peak Pulse Power vs. Pulse Time



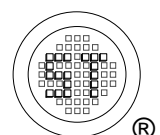
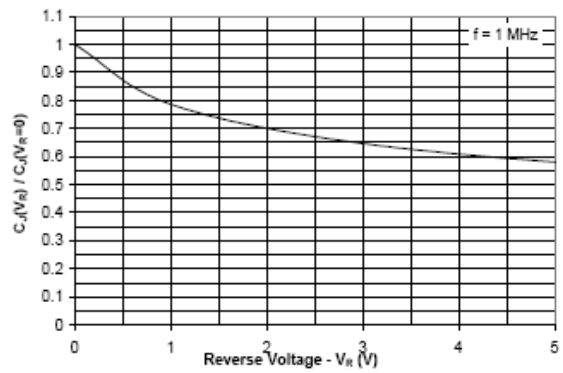
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current



Normalized Junction Capacitance vs. Reverse Voltage

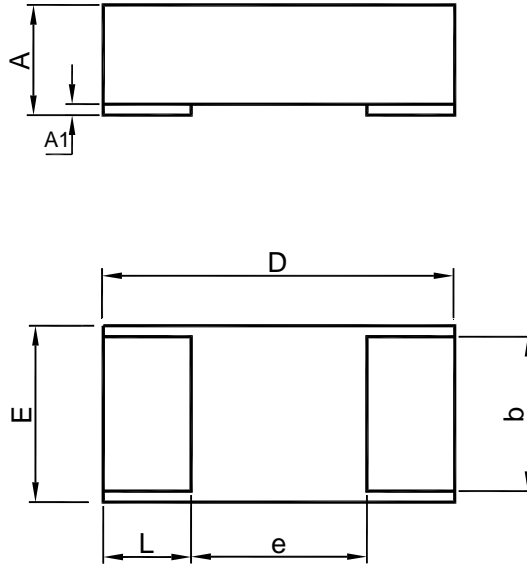


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PACKAGE OUTLINE

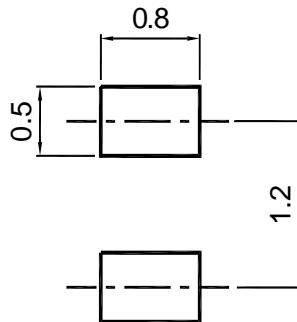
Plastic surface mounted package; 2 leads

DFN1608-2H



UNIT	A	A1	b	D	E	e	L
mm	0.55	0.05	0.75	1.65	0.85	0.85	0.45
	0.45	0	0.65	1.55	0.75	0.75	0.35

RECOMMENDED SOLDERING FOOTPRINT



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN1608	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000

